

**JEFFREY S. DENNY**

Biologist

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Education:

BS Biology, University of Minnesota, Minneapolis, MN 1977

MS Environmental Biology, University of Minnesota, Duluth, MN 1984

Employment:

1982 – Present Fishery Biologist, U.S. EPA, Duluth, MN

1979 – 1982 Research Trainee, Minnesota Sea Grant Institute, Duluth, MN

1978 – 1979 Teaching Assistant, Bemidji State University, Bemidji, MN

Research / Administrative Interests and Skills:

Screening of industrial chemicals for binding to rainbow trout estrogen receptor

Use of receptor binding to probe estrogenicity of municipal wastewater

Environmental Management Systems auditor

Culture of aquatic organisms for use in toxicity tests

Professional Societies:

American Fisheries Society

Society of Environmental Toxicology and Chemistry (Midwest Chapter Board of Directors)

Selected Appointments/Honors/Major Awards:

2004 Scientific and Technical Achievement Award – Honorable mention

2004 ORD Honor Award

Selected Publications:

Martinovic, D., J. S. Denny, P.K. Schmieder, G.T. Ankley, and P.W. Sorensen. 2007. Temporal variation in the estrogenicity of a sewage treatment plant effluent and its biological significance. *Environmental Science and Technology*, ASAP article, XXXX, xxx, 000-000.

Denny, J.S., M.A. Tapper, P.K. Schmieder, M.W. Hornung, K.M. Jensen, G.T. Ankley, and T.R. Henry. 2005. Comparison of relative binding affinities of endocrine active compounds to fathead minnow and rainbow trout estrogen receptors. *Environmental Toxicology and Chemistry* 24:11. 2948-2953.

Schmieder, P.K. M.A. Tapper, J.S. Denny, R.C. Kolanczyk, B.R. Sheedy, T.R. Henry and G.D. Veith. 2004. Use of trout liver slices to enhance mechanistic interpretation of estrogen receptor binding for cost-effective prioritization of chemicals within large inventories. *Environmental Science & Technology* 38. 6333-6342.

Hornung, M.W., K.M. Jensen, J.J. Korte, M.D. Kahl, E.J. Durhan, J.S. Denny, T.R. Henry, and G.T. Ankley. 2003. Mechanistic basis for estrogenic effects in fathead minnow (*Pimephales promelas*) following exposure to the androgen 17 $\alpha$ -methyltestosterone: Conversion of 17 $\alpha$ -methyltestosterone to 17 $\alpha$ -methylestradiol. *Aquatic Toxicology* 66:15-23.

Ankley, G.T., K.M. Jensen, E.A. Makynen, M.D. Kahl, J.J. Korte, M.W. Hornung, T.R. Henry, J.S. Denny, R.L. Leino, V. Wilson, M. Cardon, P. Hartig, and J.L. Gray. 2003. Effect of the androgenic growth promoter 17-B trenbolone on fecundity and reproductive endocrinology of the fathead minnow. *Environmental Toxicology and Chemistry*, 22:1350-1360.

Schmieder, P.K., M.A. Tapper, R.C. Kolanczyk, D.E. Hammermeister, B.R. Sheedy, and J.S. Denny. 2003. Discriminating redox cycling and arylation pathways of reactive chemical toxicity in trout hepatocytes. *Toxicological Sciences* 72:66-76.

Schmieder, P.K., M.A. Tapper, A.L. Linnun, J.S. Denny, R.C. Kolanczyk, and R.D. Johnson. 2000. Optimization of a precision-cut trout liver tissue slice assay as a screen for vitellogenin induction: Comparison of slide incubation techniques. *Aquatic Toxicology*, 49:251-268.